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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/084,442	02/28/2002	Xuesong Chen	9351-96	8360
1059	7590	04-07-2005	EXAMINER	
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CANADA				
				ART UNIT
				1764
				PAPER NUMBER
DATE MAILED: 04/07/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/084,442	CHEN ET AL.	
	Examiner N. Bhat	Art Unit 1764	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 19 August 2003.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-4 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-4 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 28 February 2002 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____
 5) Notice of Informal Patent Application (PTO-152)
 6) Other: _____

DETAILED ACTION

1. The abstract of the disclosure is objected to because applicant has made reference to the method in the abstract, this application is a Divisional and the abstract should be directed to the apparatus only. Correction is required. See MPEP § 608.01(b).

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Castel et al.

Castel et al. teach humidifier for a breathing apparatus which includes a tubular reactor or an elongated housing which includes a first inlet for a gaseous fuel and a second inlet for a gaseous oxidant, which is provided at one end of the housing and a catalyst which included within the elongated housing, wherein the catalyst promotes combustion and the oxidant to generate heat and moisture and wherein a heated and humidified gas flow exits through the outlet. The elongated housing as shown in the Figures includes fittings and connectors for supplying the fuel and oxidant. [Note Figure 1 and Column 2, lines 67-68 to Column 3, line 1-10 and Column 3, lines Column 5, lines 13 et seq.]

4. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Benning et al.

Benning et al. teach an apparatus for reacting hydrogen and oxygen, which is passed over a suitable catalyst, the hydrogen and oxygen, are combined to form water in the carrier gases. The apparatus as described by Benning et al. humidifies a gas in a controlled fashion. The apparatus as claimed by Benning is a catalytic reactor chamber(38) which is an elongated chamber, which is, includes a catalyst which causes hydrogen and oxygen to react to form water such as Nixon. The "Niox" catalyst is normally palladium supported on kaolin. [Note Column 3, lines 3-75] The apparatus or catalytic reactor clearly anticipates applicant's claims as presently drafted.

5. Claims 1-3 of this application conflict with claims 1-3 of Application No. 10/721,888. 37 CFR 1.78(b) provides that when two or more applications filed by the same applicant contain conflicting claims, elimination of such claims from all but one application may be required in the absence of good and sufficient reason for their retention during pendency in more than one application. Applicant is required to either cancel the conflicting claims from all but one application or maintain a clear line of demarcation between the applications. See MPEP § 822.

6. Claims 1-3 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 1-3 of copending Application No. 10/721,888. This is a provisional double patenting rejection since the conflicting claims have not in fact been patented.

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Chen et al. '748, 789, 546, all teach a method of heating and humidifying at least one of a fuel stream and an oxidant stream for a fuel cell using a

catalytic humidifier and heater for the fuel stream of a fuel cell. Hirano et al. teach a polymer electrolyte fuel cell. Frank et al. teach a catalytic humidifier and heater for humidification of the oxidant stream for a fuel cell.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to N. Bhat whose telephone number is 571-272-1397. The examiner can normally be reached on Monday-Friday, 9:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Calderola can be reached on 571-272-1444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



N. Bhat
Primary Examiner
Art Unit 1764

Application/Control Number: 10/084,442
Art Unit: 1764

Page 5